

## EDUCATION

- Keele University, School of Computing and Mathematics** Keele, UK  
*Master of Science in Artificial Intelligence and Data Science* Sept. 2021 – Sept. 2022
  - **Grade:** Secured Distinction and honoured with best performance award.
  - **Relevant Coursework:** Twitter Data Analysis, Analysis on Google Search queries, Java-based simulation of agent behaviour and transactions
  - **Relevant Subjects:** Data Analytics and Databases, Mathematics for AI and Data science, Data Visualization, Distributed Intelligent System, Machine Learning and Cloud Computing.
- College Of Engineering Chengannur** Kerala, India  
*Bachelor of Technology in Computer Science* Aug. 2014 – May 2018
  - **CGPA:** 8.53/10.0
  - **Relevant Subjects:** Data Structures and Algorithms, Analysis and Design of Algorithms, Database Management Systems, Object Oriented Programming, Statistics and Probability

## EXPERIENCE

- Tata Consultancy Service Ltd** Bangalore, India  
*Software Engineer* Jun. 2018 – Oct. 2021
  - Led offshore operations for Apple's Customer Relationship Management Project, overseeing successful delivery of technical solutions that met client requirements and improved system functionality.
  - Utilized expertise in programming languages such as Python and Java to develop and implement efficient technical solutions.
  - Collaborated with cross-functional engineering teams to design and implement technical solutions for enhanced system functionality.
  - Maintained excellent communication and relationship-building skills to facilitate seamless project delivery and maintain client satisfaction.
  - Worked on the full lifecycle of software products, from analysis and design to implementation, release, and post-rollout level 3 support.
- Sony Global - Indsie Technologies** Cochin, India  
*Intern Web Developer* Jun. 2016 – Jul. 2016
  - Developed an accounting website to be used in live handicraft e-commerce transactions of Indsie.com.
  - Delivered clean, error-free code matching project scope and minimising performance issues.

## PUBLICATIONS

- Sarangi, S. and Mandal, B. (2023). **Deep Neural Network Based Attention Model for Structural Component Recognition**. In *Proceedings of the 18th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - Volume 4: VISAPP*, ISBN 978-989-758-634-7, ISSN 2184-4321, pages 317-326.

## PROJECTS

- Deep Learning Model:** Developed a civil structural component recognition model using an attention model, showcasing strong expertise in machine learning and neural networks.
- Face Recognition:** Implemented a demographic face recognition system using a convolutional neural network, demonstrating proficiency in computer vision and deep learning techniques.
- Recommendation System:** Created a movie recommendation system using public datasets, showcasing expertise in NLP and machine learning algorithms.
- Data Analysis and Visualization:** Successfully completed an external client project involving data analysis and visualization for BookMeln2, displaying effective data handling skills.
- Machine Learning Model:** Developed a handwritten character recognition system using machine learning techniques, demonstrating expertise in machine learning model development

## SKILLS

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- **Data Science and AI:** Proficient in data analysis, machine learning, and artificial intelligence methodologies. Experienced in leveraging data-driven insights to develop innovative solutions.
- **Programming Languages:** Proficient in programming languages including Python, R, Java, C, C++, and JavaScript. Strong command of Python for data manipulation, modelling, and analysis. Skilled in writing efficient and well-structured code.
- **Agile Development:** Familiar with agile software development practices, including code reviews, unit testing, and version control with Git.
- **Deep Learning Architectures:** Well-versed in deep learning concepts, including transformers, recurrent and convolutional neural networks, and attention mechanisms.
- **Machine Learning Algorithms:** Strong knowledge in popular ML algorithms such as Random Forest, XGBoost and Linear Regressors
- **Frameworks and Libraries:** Hands-on experience with popular frameworks such as TensorFlow, Pytorch and Keras, as well as libraries like Hugging Face for natural language processing and computer vision tasks.
- **Data Analysis:** Proficient in working with diverse types of data, including text and visual data. Capable of extracting meaningful insights and features from multimodal datasets.
- **Problem Solving:** Adept at tackling complex challenges and developing data-driven solutions. Demonstrated ability to apply algorithms and techniques to solve real-world problems.
- **Collaboration:** Effective team player with the ability to collaborate with cross-functional teams, including product teams, engineers, and non-technical stakeholders.
- **Continuous Learning:** Committed to staying updated with the latest trends and research in the field of AI and data science. Passionate about integrating cutting-edge technologies into practical applications.
- **Database management:** Skilled in database management using Oracle, MySQL, and SQLite
- **Web development:** Experienced in developing and consuming REST APIs, as well as creating web pages using HTML and CSS
- **OS and Software:** Proficient in MATLAB, Microsoft Office tools and Linux/Unix/Mac operating systems

## COURSE CERTIFICATIONS

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- Machine learning with Python Training (Besant Technologies)
- Python, Pandas & Data Visualization (Kaggle)
- Deep Learning Specialization – DeepLearning.AI (Coursera)
- Machine Learning A-Z™: AI, Python & R (Udemy)